

Connor Douglas

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U.S. Citizen

RESEARCH INTERESTS

My research interests broadly lie at the intersection of machine learning and economics. Specifically, I am interested in data-driven decision-making and the emergent outcomes of algorithmic decision-makers in economic environments, often studying techniques from reinforcement learning. I am currently pursuing streams in algorithmic pricing collusion along with personalization and adaptation of generative AI content.

Keywords: *machine learning, reinforcement learning, data-driven decision making, personalization, pricing, markets, multi-agent systems*

EDUCATION

New York University, Stern School of Business <i>Ph.D. Information Systems — Technology, Operations, & Statistics department</i>	2022 - Present New York, NY
Washington University in St. Louis <i>B.S. Computer Science & Economics — McKelvey School of Engineering</i> <ul style="list-style-type: none">Grade: 3.98/4.0, <i>Summa Cum Laude</i>Minor: Design	2018 - 2022 St. Louis, MO

PROFESSIONAL EXPERIENCE

United Nations <i>Research Fellow</i> <i>Addressing mis/disinformation in peacekeeping</i> <ul style="list-style-type: none">Constructed novel method of coordinated behavior detection through semantic similarity and time differentialsStudied methods for identifying mis/disinformationBuilt semantic search and clustering functionality in monitoring tool	Nov. 2023 – May 2024 New York, NY
Washington University in St. Louis, McKelvey School of Engineering <i>Research Assistant</i> <ul style="list-style-type: none"><i>Advisor:</i> Yevgeniy VorobeychikDevised and constructed solution techniques for an adversarial model of baseball at-bat in order to optimize pitching strategy	May 2021 - May 2022 St. Louis, MO
Genentech <i>Software Engineering Intern</i> <ul style="list-style-type: none">Developed novel technique for creating structured data from unstructured clinical trial protocolsLed project in developing full-stack clinical study management toolDesigned and built front-end of question-answering tool ingesting protocol documents	May 2020 - May 2021 South San Francisco, CA

TEACHING EXPERIENCE

Intro. to Analytics and AI (Graduate) <i>Teaching Fellow</i> <i>New York University — Stern School of Business</i>	Summer 2024
Data Science for Business (Graduate) <i>Teaching Fellow</i> <i>New York University — Stern School of Business</i>	Spring 2024
Intro. to Econometrics (Undergraduate) <i>Teaching Assistant</i> <i>Washington University in St. Louis — Economics Department</i>	Spring 2022
Data Structures & Algorithms (Undergraduate) <i>Teaching Assistant</i> <i>Washington University in St. Louis — Computer Science Department</i>	Fall 2019, Spring 2020

INSTITUTIONAL SERVICE

ISPOC <i>Associate Organizer</i>	2024
Tau Beta Pi (WUSTL Chapter) <i>President</i>	2021-2022
Engineers Without Borders (WUSTL Chapter) <i>Treasurer</i>	2019-2021

PUBLICATIONS

<i>Computing an Optimal Strategy in a Baseball At-bat</i> Connor Douglas, Everett Witt, Mia Bendy, Yevgeniy Vorobeychik <i>Proceedings of FLAIRS-36 Conference.</i> 2023.	
<i>Techniques for Abstraction of Unstructured Clinical Trial Health Data</i> Lukas Corey*, Jennifer Crawford*, Connor Douglas*, Benjamin Fernandez* <i>U.S. Patent Office Filing (PCT/US22/30369).</i> 2022.	*Equal Contributions

PRESENTATIONS AND INVITED TALKS

FLAIRS-36 Conference: Oral presentation on "Computing an Optimal Strategy in a Baseball At-bat." 2023.

GRANTS AND AWARDS

- NSF GRFP:** Award won in Economics (2024); Total Funding: \$159,000
- National Merit Scholarship:** Scholarship awarded by Pfizer (2018); Total Funding: \$12,000